

## Gulf of Mexico Harmful Algal Bloom Bulletin

16 April 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 12, 2007

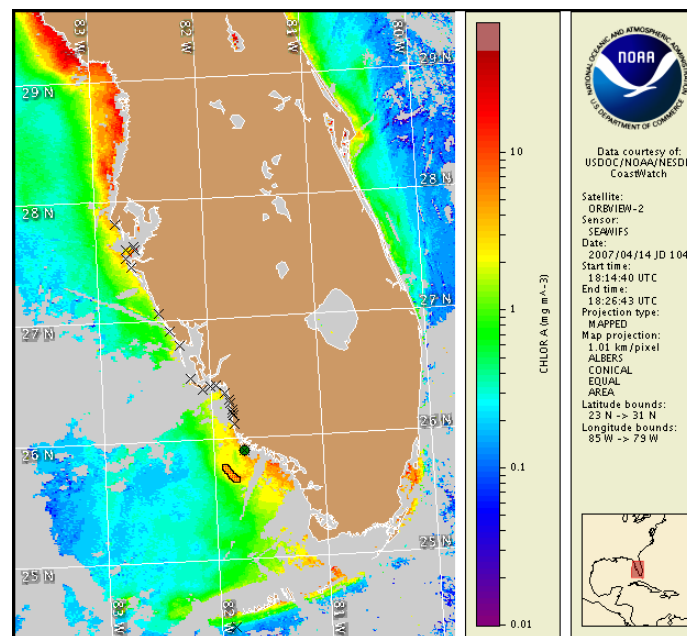
### Conditions Report

There is no indication of harmful algal bloom presence alongshore of southwest Florida, including the Keys region, at the present time. No impacts are expected in any Florida County through Thursday.

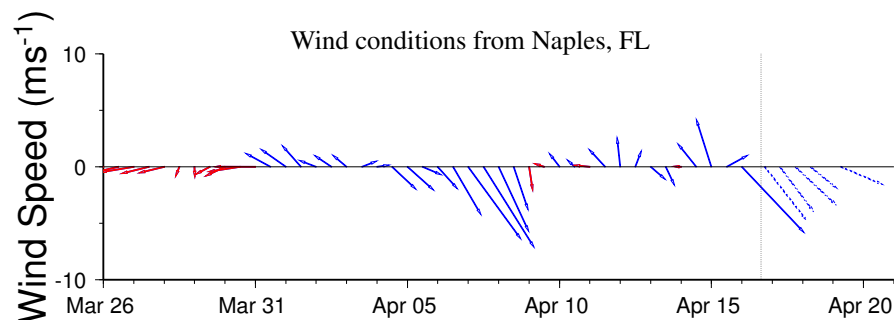
### Analysis

No *Karenia brevis* has been identified alongshore of southwest Florida or in the Keys over the past two and a half weeks (FWRI, MML), with the exception of background concentrations at south Marco Island Beach, Collier County on 4/9 (FWRI). Significant cloud cover over the past couple days limits analysis of recent satellite imagery. Imagery on 4/14 (shown) indicates an elevated chlorophyll band (generally 3  $\mu\text{g}$ ; up to 11  $\mu\text{g}$  near 25°41'15"N, 81°47'36"W) 15 miles (24 km) south-southwest of Cape Romano (wrapping around from 25°45'19"N, 81°53'35"W to 25°41'15"N, 81°44'36"W). The feature was first noted in 4/9 bulletin and also appeared in 4/12-13 imagery. Recommend sampling. North to northwest winds through Wednesday may promote southward movement of the feature and possibly increase the potential for intensification.

~Fenstermacher, Keller



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 6-12 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: [http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)



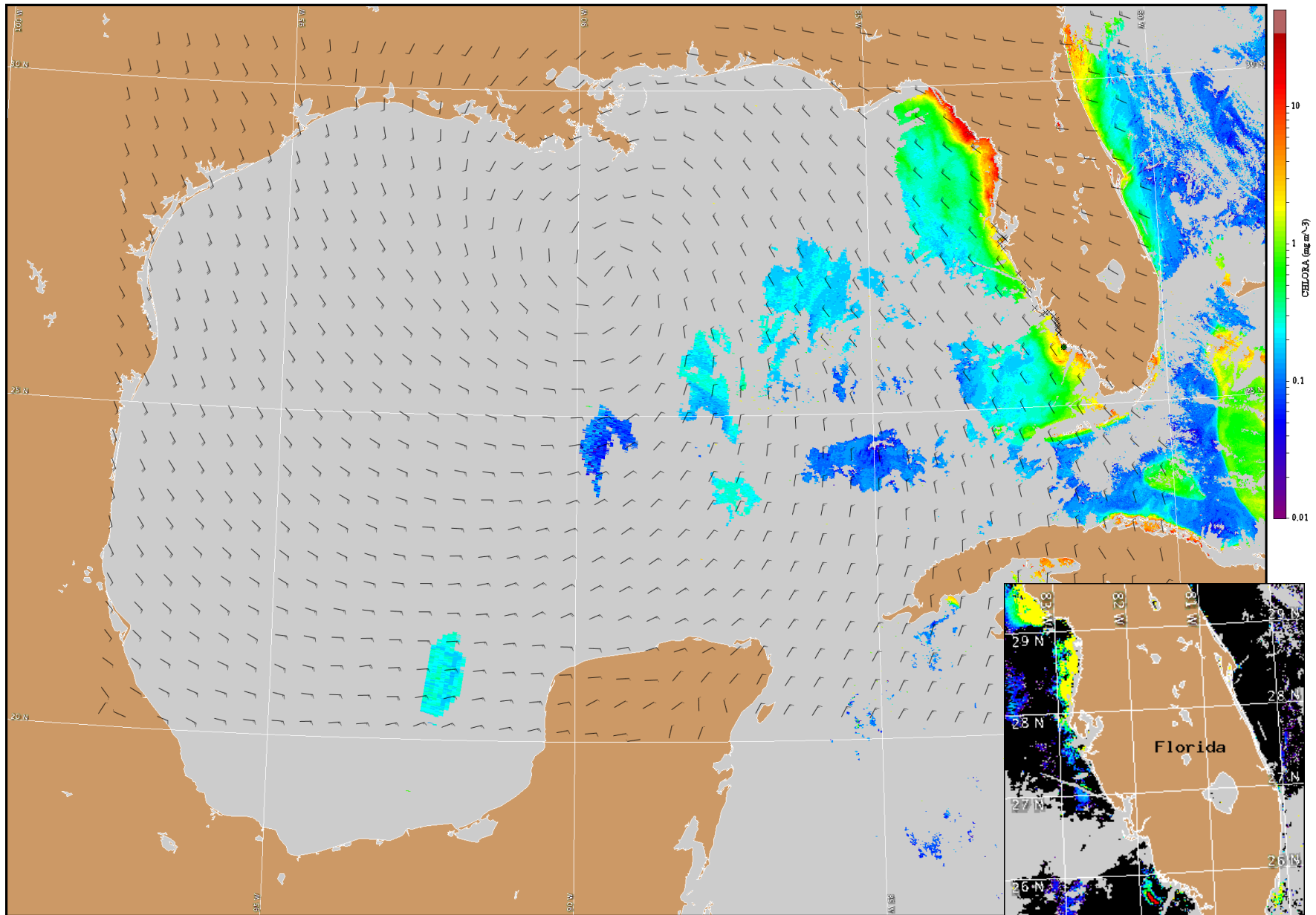
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: North to northwesterlies today (10-25 knts; 5-13 m/s) through Tuesday (5-10 knts; 3-5 m/s). Northerlies becoming westerlies on Wednesday followed by westerlies on Thursday (5-15 knts; 3-8 m/s).

Lower Keys: North to northwesterlies today (15-25 knts; 8-13 m/s) through Tuesday followed by westerlies Tuesday night and Wednesday (10-15 knts; 5-8 m/s). Northwest to westerlies on Thursday (15 knts; 8 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for April 17, 2007 06Z with cell concentration sampling data from April 6-12 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: [http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

